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PGPB,JPAB,EPAB,DWPI	(intimin or invasin).ti,ab,clm.	35	<u>L8</u>
USPT	16 and (intimin or invasin)	0	<u>L7</u>
USPT	passive.clm. and (cow or calf or chick or chicken or young or newborn or yearling or nursing or piglet)	446	<u>L6</u>
USPT	invasin.ti,ab,clm.	11	<u>L5</u>
USPT	intimin.ab.	2	<u>L4</u>
USPT	intimin.clm.	1	<u>L3</u>
USPT	intimin.ti.	2	<u>L2</u>
USPT	intimin.ti.	2	<u>L1</u>

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USPT	intimin.ti.	2	L1

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L8: Entry 5 of 35

File: EPAB

Oct 30, 1997

PUB-NO: WO009740177A1

DOCUMENT-IDENTIFIER: WO 9740177 A1

TITLE: METHOD OF STIMULATING AN IMMUNE RESPONSE BY ADMINISTRATION OF HOST ORGANISMS THAT EXPRESS INTIMIN ALONE OR AS A FUSION PROTEIN WITH ONE OR MORE OTHER ANTIGENS

PUBN-DATE: October 30, 1997

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APPL-NO: US09705831

APPL-DATE: April 18, 1997

PRIORITY-DATA:

INT-CL (IPC): C12N 15/82; C12N 15/31; A61K 38/16; A61K 39/108; A61K 39/02; A01H 5/10; C12N 5/10

ABSTRACT:

CHG DATE=19990617 STATUS=O>This invention satisfies needs in the art by providing intimin, the Enterohemorrhagic Escherichia coli (EHEC) adherence protein, alone or as a fusion protein with one or more other antigens, expressed by transgenic plants and the use of those plants as vehicles for stimulating a protective immune response against EHEC and the one or more other antigens. Various plant species are transformed to protect various animal species and also humans against EHEC, against pathogens expressing intimin-like proteins, and against pathogens expressing any of the one or more other antigens to which intimin may be fused. The eae gene encoding intimin, a functional portion thereof, or a recombination that encodes a fusion protein is put under the control of a constitutive plant promoter in a plasmid and the plasmid is introduced into plants by the type of transformation appropriate for the particular plant species. The engineered plants expressing intimin or the intimin fusion protein are then fed to animals and/or humans to elicit the production of antibodies, which protect the animals/humans against EHEC colonization and infection, and against pathogens expressing the one or more other antigens and any cross-reactive antigens. The invention may also be practiced by expressing the intimin or intimin fusion protein in other host organisms such as bacteria, yeast, and fungi.